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Total Number of Pages in This Submission

Application Number	10/560,405
Filing Date	12/12/2005
First Named Inventor	Isabelle Chartier, et al.
Art Unit	1734
Examiner Name	Unassigned
Attorney Docket Number	034299-678

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Postcard International Preliminary Examination Report
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm	Thelen Reid & Priest LLP		
Signature			
Printed Name	Suvashis Bhattacharya		
Date	6/30/06	Reg. No.	46,554

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature	
Typed or printed name	Mercy Jacob
Date	6/30/2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

Translation

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

		Date of mailing (day/month/year)
Applicant's or agent's file reference B14324.3 PV		FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/FR2004/050274	International filing date (day/month/year) 14.06.2004	Priority date (day/month/year) 16.06.2003
International Patent Classification (IPC) or both national classification and IPC		
Applicant COMMISSARIAT A L'ENERGIE ATOMIQUE		

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/EP	Authorized officer
Facsimile No.	Telephone No.

Expéditeur : le BUREAU INTERNATIONAL

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(règles 44bis.3.c) et 72.2 du PCT)

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FRANCE*

Destinataire :

Date d'expédition (jour/mois/année) 11 mai 2006 (11.05.2006)

Référence du dossier du déposant ou du mandataire B14324.3 PV
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Demande internationale n° PCT/FR2004/050274
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Déposant COMMISSARIAT A L'ENERGIE ATOMIQUE etc

NOTIFICATION IMPORTANTE

<p>1. Transmission de la traduction au déposant.</p> <p><input checked="" type="checkbox"/> Le Bureau international transmet ci-joint copie de la traduction en langue anglaise du rapport préliminaire international sur la brevetabilité (chapitre I).</p> <p><input type="checkbox"/> Le Bureau international transmet ci-joint copie de la traduction en langue anglaise du rapport préliminaire international sur la brevetabilité (chapitre II).</p> <p>2. Transmission d'une copie de la traduction aux offices désignés ou élus.</p> <p>Le Bureau international notifie au déposant qu'une copie de cette traduction a été transmise aux offices désignés ou élus suivants qui exigent la traduction en question:</p> <p>Aucun</p> <p>Les offices désignés ou élus suivants ayant renoncé à l'exigence selon laquelle la transmission doit être effectuée à cette date recevront une copie de cette traduction du Bureau international seulement à leur demande:</p> <p>AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW</p> <p>3. Rappel concernant la traduction dans la ou l'une des langues officielles de l'office ou des offices élus.</p> <p>Il est rappelé au déposant que, lorsqu'une traduction de la demande internationale doit être remise à un office élu, cette traduction doit comporter la traduction de toute annexe du rapport préliminaire international sur la brevetabilité (chapitre II).</p> <p>Il appartient au déposant d'établir la traduction en question et de la remettre directement à chaque office élu intéressé dans le délai applicable (règle 74.1). Voir le volume II du <i>Guide du déposant du PCT</i> pour de plus amples renseignements.</p>
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Fonctionnaire autorisé

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2004/050274

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

This opinion has been established on the basis of a translation from the original language into the following language
which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

a sequence listing
 table(s) related to the sequence listing

b. format of material

in written format
 in computer readable form

c. time of filing/furnishing

contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.

3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2004/050274

Box No. II Priority

1. The following document has not yet been furnished:

copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).

translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2004/050274

Box No. V	<u>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</u>																									
<p>1. Statement</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Novelty (N)</td> <td style="width: 50%;">Claims</td> <td style="width: 25%;"><u>1-10</u></td> <td style="width: 25%; text-align: right;">YES</td> </tr> <tr> <td></td> <td>Claims</td> <td></td> <td style="text-align: right;">NO</td> </tr> <tr> <td>Inventive step (IS)</td> <td>Claims</td> <td><u>1-10</u></td> <td style="text-align: right;">YES</td> </tr> <tr> <td></td> <td>Claims</td> <td></td> <td style="text-align: right;">NO</td> </tr> <tr> <td>Industrial applicability (IA)</td> <td>Claims</td> <td><u>1-10</u></td> <td style="text-align: right;">YES</td> </tr> <tr> <td></td> <td>Claims</td> <td></td> <td style="text-align: right;">NO</td> </tr> </table>			Novelty (N)	Claims	<u>1-10</u>	YES		Claims		NO	Inventive step (IS)	Claims	<u>1-10</u>	YES		Claims		NO	Industrial applicability (IA)	Claims	<u>1-10</u>	YES		Claims		NO
Novelty (N)	Claims	<u>1-10</u>	YES																							
	Claims		NO																							
Inventive step (IS)	Claims	<u>1-10</u>	YES																							
	Claims		NO																							
Industrial applicability (IA)	Claims	<u>1-10</u>	YES																							
	Claims		NO																							
<p>2. Citations and explanations:</p> <p>1 Reference is made to the following documents in the present notification:</p> <p>D1: AWATINI Y ET AL: "Damage free dicing method for MEMS devices" 2002, IEEE/LEOS INTERNATIONAL CONFERENCE ON OPTICAL MEMS (CAT. NO. 02EX610), LUGANO, SWITZERLAND, 20-23 AUG. 2002, PISCATAWAY, NJ, USA, IEEE, USA, PAGE(S) 137 - 138, XP010602742 ISBN: 0-7803-7595-5</p> <p>D2: SASAKI S ET AL: "Screen printed adhesive technologies for all-silicon optical packaging" 1996, 46TH ELECTRONIC COMPONENTS AND TECHNOLOGY CONFERENCE, PROCEEDINGS, ORLANDO, FL, USA 28-31 MAY 1996, IEEE, US, PAGE(S) 1289-1293, NEW YORK, NY, USA, XP010167189 ISBN: 0-7803-3286-5</p> <p>2 Document D1, which is considered as representing the most relevant prior art, describes (cf. D1, figure 2):</p> <p>A method of adhesive-coating at least one microstructured substrate having coplanar upper plane regions and recesses between the latter, by means of an adhesive capable of adhering to these</p>																										

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2004/050274

Box No. V

Reasoned statement under Rule 43bis.I(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

coplanar upper plane regions, this method comprising the following steps:

- a grid is placed on top of the substrate;
- this grid is coated with adhesive, by means of a tool which, by pressing on the grid, brings this grid locally into contact with the coplanar upper plane regions, so as to deposit a film of adhesive droplets on these coplanar upper plane regions; and
- the grid is removed,

from which the subject matter of independent claim 1 differs in that:

in the method, the coplanar upper plane regions are treated before the film of adhesive droplets is deposited thereon, this treatment being designed to adapt the wettability of these regions to the adhesive.

2.1 The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem that the present invention is intended to solve can thus be considered to be how to ensure that the droplets join up so as to form a coherent film (cf. page 11 of the description of the present application, lines 12-17).

2.2 The solution to this problem, as proposed in claim 1 of the present application, is considered to involve an inventive step (PCT Article 33(3)), for the following reasons:

none of the documents identified in the art or mentioned in the search report discloses a treatment for adapting the wettability of the coplanar upper

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2004/050274

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
regions.

2.3 Claims 2-10 are dependent on claim 1 and therefore also comply, as such, with the requirements of novelty and inventive step of the PCT.